



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Heon Lee et al

Confirmation No.:

Application No.: 10/698501

Examiner:

Filing Date: Oct 31, 2003

Group Art Unit:

Title: Heating MRAM Cells To Ease State Switching

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 2/4/04

OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number _____ on _____ Number of pages: _____

Typed Name: Tiffany Turner

Signature:

Respectfully submitted,

Heon Lee et al

By Brian R. Short

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Date: 2/3/04

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PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209239-1

APPLICATION NO.

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CONFIRMATION NO.

APPLICANT

Heon lee, et al

FILING DATE

10/31/03

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A US5640343		Gallagher, et al	
	1B US5224068		Miyake, et al	
	1C US5396455		Brady, et al	
	1D US5444651		Yananoto, et al	
	1E US5761110		Irrinki, et al	
	1F US5933365		Klersy, et al	
	1G US5936882		Dunn	
	1H US5953245		Nishimura	
	1I US5956295		Yamakawa, et al	
	1J US6016290		Chen, et al	
	1K			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L				
	1M				
	1N				
	1O				
	1P				

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Hewlett-Packard published application number 20020089874, serial 758757, filed 1/11/01, Thermally-assisted switching of magnetic memory elements, Nikel, et al
1R	Hewlett-Packard published patent application number 20030123282, serial 315748, filed 12/10/02, Thermally-assisted switching of magnetic memory elements, nikel, et al
1S	Ryan, Mason & Lewis, LLP published patent application 20030198113, serial 128838, filed 4/23/02, Memory storage device with heating element, Abraham, David W.; et al.

EXAMINER

DATE CONSIDERED